

## **Attachment One**

August 22, 2006

TO: Members of the MAG Population Technical Advisory Committee

FROM: Harry P. Wolfe, Senior Project Manager

SUBJECT: METHODOLOGY FOR PREPARING JULY 1, 2006 MUNICIPALITY  
UPDATES

Next month it is anticipated that DES will produce a draft July 1, 2006 population figure for Maricopa County. Once approved, this will be used as the control total from which MAG will develop July 1, 2006 resident population for municipalities in the region. This memo discusses the method that will be used to derive the Municipality Updates which will be presented to the MAG POPTAC Ad Hoc Subcommittee for consideration. A recommendation from the MAG POPTAC Ad Hoc will be forwarded to the MAG POPTAC for possible action.

Because state law requires that the estimates be based upon the results of the recently completed September 1, 2005 census survey, there are some differences in the methodology used to prepare the updates compared to previous years. Because the results of the Census Survey did not include housing units by unit type, MAG will need to compute the population in households using total units and occupancy rates and persons per household for total units. A summary of the methodology used is provided below:

### **1. Prepare Census Data**

Using the 2005 Census Survey as the base, determine the September 1, 2005 household population, group quarter population, total housing units, occupied housing units, occupancy rates and population per occupied unit for total units for each jurisdiction.

### **2. Collect New Data**

Obtain the residential housing unit completions and demolitions for the time period of September 1, 2005 through June 30, 2006 Subtract residential demolitions from residential completions by municipality to determine net new housing units.

Obtain annexed and de-annexed housing unit data from member agencies. Determine

population change from annexations/de-annexations using persons per occupied housing units and occupancy rates.

Obtain July 1, 2006 group quarter population from survey of MAG member agencies.

3. **Calculate July 1, 2006 Housing Units**

Calculate the July 1, 2006 housing stock by adding the net new housing units and the net annexed housing units from step 2 to the Census base.

4. **Calculate July 1, 2006 Resident Population**

Calculate household population by multiplying the housing stock from step 3 times the respective occupancy rates and persons per occupied unit by municipality.

The occupancy rate and persons per occupied unit by jurisdiction from the 2005 Census Survey are used to calculate the new household population.

Bench the residential population in households to the county control total from DES to obtain July 1, 2006 population in households. Benching is necessary when the MAG derived total population does not match the control total obtained from DES. MAG benches its numbers by municipality by proportionately distributing the difference based on the change from the base Census population.

Calculate the total resident population for July 1, 2006 by adding the July 1, 2006 group quarter population from step 2 to the July 1 2006 household population.

Round the county resident population total to the nearest 25 persons and each municipality population to the nearest 5 persons.

We are requesting that the MAG POPTAC consider action on a proposal from the MAG POPTAC Ad Hoc Subcommittee. If you have any questions or need additional information, please contact me or Don Worley at 602-254-6300.